

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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EGEMEN PLASTİK SANAYİ VE TİCARET LTD. ŞTİ.

MAHMUTBEY MAHALLESİ 13. YOL, 11. ADA NO:13-15 BAĞCILAR İSTANBUL

TEL: 02126591587

To the attention of Muammer Ege

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	Storage Box

Client's reference No. : TR 1773743-RV1
 Model/Style No. : D-184*, D-185*, D-186*, D-187*, D-188*, D-189*, D-190*, D-191*, D-197*,
 D-198*, D-199*, D-204*, D-205*, D-206*, D-207*, D-208*, D-209*, D-201*,
 D-211*, D-212*, D-213*, D-214*, D-215*, D-216*, D-217*, D-220*, D-221*,
 D-222*, D-229*, D-230*, D-231*, D-239*, D-240*, D-241*, D-249*, D-250*,
 D-251*, D-259*, D-260*, D-261*, D-266*, D-267*, D-268*, D-269*, D-270*,
 D-279*, D-280*, D-281*, D-282*, D-283*, D-284*, D-285*, D-286*, D-287*,
 D-288*, D-289*, D-297*, D-298*, D-299*, D-300*, D-301*, D-303*, D-307*,
 D-309*, D-310*, D-311*, D-312*, D-313*, D-314*, D-315*, D-316*, D-317*,
 D-318*, D-319*, D-320*, D-374*, D-375*, D-378*, D-379*, D-380*

Manufacturer : EGEMEN PLASTİK SANAYİ VE TİCARET LTD. ŞTİ.
 Sample Receiving Date : 7 August 2020
 Resubmit Date : 2 September 2020
 Test Performing Period : 7 August 2020 ~ 28 August 2020

Overall Conclusion : PASS

Test Results : Please refer to the next page(s).
Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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*** Remark(s):**

1 - Client claimed that below samples are made of the same material and color which are different on the shape and size merely.

D-184, D-185, D-186, D-187, D-188, D-189, D-190, D-191, D-197
D-198, D-199, D-204, D-205, D-206, D-207, D-208, D-209, D-201,
D-211, D-212, D-213, D-214, D-215, D-216, D-217, D-220, D-221,
D-222, D-229, D-230, D-231, D-239, D-240, D-241, D-249, D-250,
D-251, D-259, D-260, D-261, D-266, D-267, D-268, D-269, D-270,
D-279, D-280, D-281, D-282, D-283, D-284, D-285, D-286, D-287,
D-288, D-289, D-297, D-298, D-299, D-300, D-301, D-303, D-307,
D-309, D-310, D-311, D-312, D-313, D-314, D-315, D-316, D-317,
D-318, D-319, D-320, D-374, D-375, D-378, D-379, D-380

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Test Parameters	Result			
	A1	A2	A3	A4
Chemical tests				
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant A (Ethanol 10%)	M	M	M	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant B (Acetic acid 3%)	M	M	M	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (95% Ethanol)	M	M	M	-
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (Isocotane)	M	M	M	-
FCM - Overall Migration of Total Non-Volatile Substance in Plastic Materials- Simulant D2 (Olive Oil)	-	-	-	M
FCM - Soluble Heavy Metals in Aqueous Test Simulants (3% Acetic Acid)	M	M	M	M
Bisphenol A	M	M	M	M

Remarks	:	M = Meets client's requirement
		F = Exceed client's requirement
		I = Inconclusive
		* = No specified requirement
		# = See individual result: Result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component <u>has been carried out</u> as requested to determine the compliance of each component to the requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).	
	The composite sampling method is based on the client's special request and is a modification from the testing standard.	
	Residual sample can be returned to client if requested.	

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The test results relate to the tested items only.
Test reports without SGS seal and authorised signatures are invalid.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

IN THIS REVISED-1 REPORT, REFERENCE MODEL NUMBERS WERE ADDED BY THE REQUEST OF THE APPLICANT.

THIS REPORT SUPERSEDES OUR REPORT NO: TR1773743 DATED: 28.08.2020

Mert Kurtuluş
Customer Services Supervisor

Bora Şirinbilek
Hardline & CPCH Testing Services Manager


**Component List / List of Materials for Chemical Test**

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Storage Box	A1	Main	Plastic	Lilac
A	Storage Box	A2	Main	Plastic	Transparent
A	Storage Box	A3	Main	Plastic	Pink
A	Storage Box	A4	Soft lid 8round & rectangle	Plastic	Pink

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Overall Migration with %10 Ethanol ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-9:2002 aqueous food simulants by article filling;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 10% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)**A1**

Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Overall Migration with %3 Acetic Acid ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-9:2002 aqueous food simulants by article filling;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Result(s) (mg/dm²)**A1**

Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Overall Migration with %95 Ethanol ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-14:2002 substitute test.

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 95% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

	<u>Result(s) (mg/dm²)</u>
Trial 1 :	A1 n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Overall Migration with Isooctane ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-14:2002 substitute test.

Test Conditions : 10 days at 40°C performed at 2 days at 20°C (1st Migration)

Simulant Used : Isooctane

Result(s) (mg/dm²)

	<u>A1</u>
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Determination of Soluble Heavy Metals in Aqueous Test Simulants¹

Test Method : SGS In House Test Method RSTS-CHEM-602-1 (with reference to EN13130-1:2004) – Analysis by ICP-OES.
Test Conditions : 10 days at 40°C (1st Migration)
Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

<u>Test Items</u>	<u>Result(s)</u>	<u>Reporting Limit</u>	<u>Permissible Limit</u>
	<u>(mg/kg)</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
Specific Migration of Aluminum	A1 n.d.	0,10	≤ 1,00
Specific Migration of Barium	n.d.	0,25	≤ 1,00
Specific Migration of Cobalt	n.d.	0,01	≤ 0,05
Specific Migration of Copper	n.d.	0,25	≤ 5,00
Specific Migration of Iron	n.d.	0,25	≤ 48,00
Specific Migration of Lithium	n.d.	0,50	≤ 0,60
Specific Migration of Manganese	n.d.	0,25	≤ 0,60
Specific Migration of Nickel	n.d.	0,01	≤ 0,02
Specific Migration of Zinc	n.d.	0,50	≤ 5,00

Conclusion : Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

- Remark(s) :**
1. Permissible limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments,
 2. The limits of aluminum and zinc according to Commission Regulation (EU) 2016/1416 shall be applied from 14 September 2018.,
 3. The limit of nickel according to Commission Regulation (EU) 2017/752 shall be applied from 19 May 2019.,
 4. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 5. The volume of simulant used is 0,3 L,
 6. The ratio of surface area to volume ratio is 3,36 dm² per 1 kg of foodstuff in contact with

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Bisphenol A Content

Test Method: SGS In House Test Method RSTS-CHEM-239-2 - Analysis by HPLC-MSMS

Component

Bisphenol A

A1

n.d.

Conclusion**Pass**

Note(s): n.d. = not detected
mg/kg = milligram per kilogram

Detection Limit = 0,01 mg/kg

Requirement by the client = Not Detected

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Overall Migration with %10 Ethanol ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-9:2002 aqueous food simulants by article filling;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 10% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

	<u>A2</u>
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

Remark(s) : 1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Overall Migration with %3 Acetic Acid ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-9:2002 aqueous food simulants by article filling;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

	<u>Result(s) (mg/dm²)</u>
	<u>A2</u>
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Unless otherwise requested SGS applies shared risk decision rule

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days"

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Overall Migration with %95 Ethanol ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-14:2002 substitute test.

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 95% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

	<u>Result(s) (mg/dm²)</u>
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Overall Migration with Isooctane ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-14:2002 substitute test.

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : Isooctane

Result(s) (mg/dm²)

	Result(s) (mg/dm²)
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Determination of Soluble Heavy Metals in Aqueous Test Simulants¹

Test Method : SGS In House Test Method RSTS-CHEM-602-1 (with reference to EN13130-1:2004) – Analysis by ICP-OES.
Test Conditions : 10 days at 40°C (1st Migration)
Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

<u>Test Items</u>	<u>Result(s)</u>	<u>Reporting Limit</u>	<u>Permissible Limit</u>
	<u>(mg/kg)</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
Specific Migration of Aluminum	n.d.	0,10	≤ 1,00
Specific Migration of Barium	n.d.	0,25	≤ 1,00
Specific Migration of Cobalt	n.d.	0,01	≤ 0,05
Specific Migration of Copper	n.d.	0,25	≤ 5,00
Specific Migration of Iron	n.d.	0,25	≤ 48,00
Specific Migration of Lithium	n.d.	0,50	≤ 0,60
Specific Migration of Manganese	n.d.	0,25	≤ 0,60
Specific Migration of Nickel	n.d.	0,01	≤ 0,02
Specific Migration of Zinc	n.d.	0,50	≤ 5,00

Conclusion : Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

- Remark(s) :**
1. Permissible limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments,
 2. The limits of aluminum and zinc according to Commission Regulation (EU) 2016/1416 shall be applied from 14 September 2018.,
 3. The limit of nickel according to Commission Regulation (EU) 2017/752 shall be applied from 19 May 2019.,
 4. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 5. The volume of simulant used is 0,2 L,
 6. The ratio of surface area to volume ratio is 1,85 dm² per 1 kg of foodstuff in contact with

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Unless otherwise requested SGS applies shared risk decision rule

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days"

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Bisphenol A Content

Test Method: SGS In House Test Method RSTS-CHEM-239-2 - Analysis by HPLC-MSMS

Component**A2**

Bisphenol A

n.d.

Conclusion**Pass**

Note(s): n.d. = not detected
mg/kg = milligram per kilogram

Detection Limit = 0,01 mg/kg

Requirement by the client = Not Detected

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TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Overall Migration with %10 Ethanol ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-9:2002 aqueous food simulants by article filling;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 10% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

	Result(s) (mg/dm²)
	A3
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Overall Migration with %3 Acetic Acid ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-9:2002 aqueous food simulants by article filling;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Result(s) (mg/dm²)

	A3
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Overall Migration with %95 Ethanol ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-14:2002 substitute test.

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 95% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

A3

Trial 1 : n.d.

Trial 2 : n.d.

Trial 3 : n.d.

Average : n.d.

Conclusion : **Pass**

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Overall Migration with Isooctane ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-14:2002 substitute test.

Test Conditions : 10 days at 40°C performed at 2 days at 20°C (1st Migration)

Simulant Used : Isooctane

Result(s) (mg/dm²)

	<u>Result(s) (mg/dm²)</u>
Trial 1 :	<u>A3</u> n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Determination of Soluble Heavy Metals in Aqueous Test Simulants¹

Test Method : SGS In House Test Method RSTS-CHEM-602-1 (with reference to EN13130-1:2004) – Analysis by ICP-OES.
Test Conditions : 10 days at 40°C (1st Migration)
Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

<u>Test Items</u>	<u>Result(s)</u>	<u>Reporting Limit</u>	<u>Permissible Limit</u>
	<u>(mg/kg)</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
Specific Migration of Aluminum	A3 n.d.	0,10	≤ 1,00
Specific Migration of Barium	n.d.	0,25	≤ 1,00
Specific Migration of Cobalt	n.d.	0,01	≤ 0,05
Specific Migration of Copper	n.d.	0,25	≤ 5,00
Specific Migration of Iron	n.d.	0,25	≤ 48,00
Specific Migration of Lithium	n.d.	0,50	≤ 0,60
Specific Migration of Manganese	n.d.	0,25	≤ 0,60
Specific Migration of Nickel	n.d.	0,01	≤ 0,02
Specific Migration of Zinc	n.d.	0,50	≤ 5,00

Conclusion : Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

- Remark(s) :**
1. Permissible limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments,
 2. The limits of aluminum and zinc according to Commission Regulation (EU) 2016/1416 shall be applied from 14 September 2018.,
 3. The limit of nickel according to Commission Regulation (EU) 2017/752 shall be applied from 19 May 2019.,
 4. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 5. The volume of simulant used is 0,25 L,
 6. The ratio of surface area to volume ratio is 1,23 dm² per 1 kg of foodstuff in contact with

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Unless otherwise requested SGS applies shared risk decision rule

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Bisphenol A Content

Test Method: SGS In House Test Method RSTS-CHEM-239-2 - Analysis by HPLC-MSMS

Component

Bisphenol A

A3

n.d.

Conclusion**Pass**

Note(s): n.d. = not detected
mg/kg = milligram per kilogram

Detection Limit = 0,01 mg/kg

Requirement by the client = Not Detected

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Unless otherwise requested SGS applies shared risk decision rule

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory.

TEST REPORT

Job No./Report No TR1773743-RV1

Date:2 September 2020

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Overall Migration with %10 Ethanol ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2002 aqueous food simulants by total immersion;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 10% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

A4

Trial 1 : n.d.

Trial 2 : n.d.

Trial 3 : n.d.

Average : n.d.

Conclusion : **Pass**

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

- Remark(s) :**
1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
 3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Overall Migration with %3 Acetic Acid ¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2002 aqueous food simulants by total immersion;

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

	<u>Result(s) (mg/dm²)</u>
	A4
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

Remark(s) : 1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Overall Migration with Rectified Olive Oil¹

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-1,2,4 & 8

Test Conditions : 10 days at 40°C (1st Migration)

Simulant Used : Rectified Olive Oil

Result(s) (mg/dm²)

	<u>A4</u>
Trial 1 :	n.d.
Trial 2 :	n.d.
Trial 3 :	n.d.
Average :	n.d.
Conclusion :	Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Reporting Limit : 3 mg/dm²

Permissible Limit : 10 mg/dm²

Remark(s) :

1. Permissible limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
2. Analytical tolerance of fatty food simulants is 3 mg/dm² or 20 mg/kg
3. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

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Determination of Soluble Heavy Metals in Aqueous Test Simulants¹

Test Method : SGS In House Test Method RSTS-CHEM-602-1 (with reference to EN13130-1:2004) – Analysis by ICP-OES.
Test Conditions : 10 days at 40°C (1st Migration)
Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

<u>Test Items</u>	<u>Result(s)</u>	<u>Reporting Limit</u>	<u>Permissible Limit</u>
	<u>(mg/kg)</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
Specific Migration of Aluminum	n.d.	0,10	≤ 1,00
Specific Migration of Barium	n.d.	0,25	≤ 1,00
Specific Migration of Cobalt	n.d.	0,01	≤ 0,05
Specific Migration of Copper	n.d.	0,25	≤ 5,00
Specific Migration of Iron	n.d.	0,25	≤ 48,00
Specific Migration of Lithium	n.d.	0,50	≤ 0,60
Specific Migration of Manganese	n.d.	0,25	≤ 0,60
Specific Migration of Nickel	n.d.	0,01	≤ 0,02
Specific Migration of Zinc	n.d.	0,50	≤ 5,00

Conclusion : Pass

Note(s) : n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

- Remark(s) :**
1. Permissible limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments,
 2. The limits of aluminum and zinc according to Commission Regulation (EU) 2016/1416 shall be applied from 14 September 2018.,
 3. The limit of nickel according to Commission Regulation (EU) 2017/752 shall be applied from 19 May 2019.,
 4. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 5. The volume of simulant used is 0,1 L,
 6. The ratio of surface area to volume ratio is 1 dm² per 1 kg of foodstuff in contact with

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Bisphenol A Content

Test Method: SGS In House Test Method RSTS-CHEM-239-2 - Analysis by HPLC-MSMS

Component

Bisphenol A

A4

n.d.

Conclusion**Pass**

Note(s): n.d. = not detected
mg/kg = milligram per kilogram

Detection Limit = 0,01 mg/kg

Requirement by the client = Not Detected

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* * * End of Test Report * * *

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